

**Attendance:** Chris Moeller, Zhengming Wan, Bill Barnes, Gerhard Meister, Eric Vermote, Roy Yi, Scott Blanchard, Elena Novakovskaia, James Kuyper, Gary Toller, Hongda Chen, Aisheng Wu, Jack Xiong, Brian Wenny

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**Scheduled Agenda****Item 1: Recent L1B LUT delivery**

- Terra forward update – 5.0.38.1 (10/10/07) – m1, RVS, QA
- Aqua forward update – 5.0.7.24 (10/04/07) – m1

**Item 2: Instrument status**

- Terra and Aqua MODIS are in nominal operations.
- Terra performed two successful Inclination Adjustment Maneuvers, low fidelity pointing times are:
  - o Oct 10 (2007/283) 13:35:00 – 16:58:34
  - o Oct 16 (2007/289) 14:37:00 – 17:49:55
- A Drag Makeup Maneuver (Terra) is under consideration for December. No firm schedule has been decided yet.

**Item 3: MCST recent activities**

- The recent QA LUT update for Terra (5.0.38.1) changed the flag to designate Band 27 Detector 3 as a noisy detector.
- The issue of Terra mirror side differences and striping that is seen in L1B EV image data (Band 8 – significant, Band 9 – noticeable, other bands – minimal impact) was recently brought to the attention of MCST by Eric Vermote. This is related to Jack's previously stated concern regarding the absolute accuracy of Band 8, which MCST has been working with the Ocean Color Group to resolve. Internally, MCST had been aware of this mirror side issue and been investigating possible causes/solutions to the problem. A package describing the problem and some MCST data analysis was presented. A summary of the discussion is as follows: The mirror side difference is observed to be geolocation, seasonally, and AOI dependent and has increased over time (approx 3% in 2003 to about 11% in 2007); this is in addition to the typical dn signal level dropping significantly over the instrument lifetime (Band 8). The consensus of those present was that this is primarily a polarization effect which is coupled with the viewing geometry and is indirectly included in the current RVS correction and there is no easy way to decouple these effects. Currently no polarization correction is applied in L1B processing and it would require major code changes to the L1B algorithm to incorporate some form of a decoupled RVS and polarization correction. One option for dealing with this issue is to provide users with a modeled polarization correction which they can apply to the L1B data. Eric raised the concern that the current RVS derivation for Terra uses mirror side ratio data over one specific Ocean site. MCST is in the process of investigating the use of alternate sites in the Terra RVS derivation. Preliminary analysis of Aqua data shows minimal mirror side differences and still uses an RVS derived from the on-board calibrators.

**Item 4: Around the Table**

Next Meeting: ~Oct. 31, 2007